

Year 10 IT	Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 1 - (Midway) – 13/05/2024 Summer Term 2
Cambridge National Level 1 / Level 2 IT – J836	R060 - Data manipulation using spreadsheets – (NEA – Internally and externally assessed)			R070 - Using Augmented Reality to present information – (NEA – Internally and externally assessed)		R050 - IT in the digital world – Written exam paper – (1 hour 30 Minutes)
Ethos Links	Character Confidence – (TA4) Creativity – (TA2) Contributing Community Relationships Routines – (TA1) Recognition Restorative approach			Character Confidence Creativity – (TA2) Contributing Community – (TA1) Relationships Routines – (TA4) Recognition Restorative approach		Character Confidence – (TA6) Creativity Contributing – (TA3) Community – (TA2) Relationships Routines Recognition Restorative approach
Learning End Points	 Spreadsheets are powerful sophisticated tools that allow businesses to model real life scenarios. By the end of this unit students will be able to effectively plan and design a spreadsheet solution (TA1). Create a spreadsheet solution based on the NEA scenario provided by the exam board (TA2). They should be competently able to conduct the testing process of the spreadsheet solution (TA3). Finally, to conclude this NEA project the students should be able to confidently evaluate the spreadsheet and their personal performance (TA4). 			The students need to understand how smartphones, tablets and other digital devices have changed the way we communicate. Augmented Reality has changed the way information is accessed, viewed, and used. The students will first learn what is Augmented reality (TA1). Then they will use specific design tools to design an AR model prototype (TA2). Then based on the design they will create the AR model prototype using XR plus (TA3). Finally, they will be able to understand the process of how to test and review their final AR prototype (TA4).		The students will learn about how IT is used in society today. This will be at home, places of work, and out about in real life. The students would have learnt about the design tools used to create an IT system (TA1). They would be able to explain how human computer interfaces work in everyday life (TA2). They would be able to demonstrate their understanding of how to work with data and carry out sophisticated testing (TA3). They should be able demonstrate understanding of cybersecurity and the legislations affiliated with cybercrime (TA4). They should develop a good understanding of existing digital communication methods (TA5).
Substantive knowledge	Creating the spreadTesting the spread	signing the spreadsheet solut eadsheet solution (TA2) adsheet solution (TA3) preadsheet solution (TA4).	ion (7A1)	 Augmented Reality (AR) Designing and AR mode Creating an AR MODEL Testing and Review 	prototype (TA2) prototype (TA3)	 competent on the Internet of Everything topic (TA6). Design tools (TA1) The Human Computer Interface (HCI) in everyday life (TA2) Data and Testing (TA3) Cyber security and legislations (TA4) Digital Communications (TA5) The Internet of everything (IOE) (TA6).

Disciplinary	The keys IT skills that the students will develop are planning, designing, creating,	Augmented reality is part of everyday study. IT specialists	An IT specialist who designs an IT system must be able to	
knowledge	testing, and evaluating a spreadsheet model based on a given scenario. In the IT	irrespective of the industry would have encountered AR at some	decompose a client's requirements and make a system to meet their	
	industry, this would be the method that would be used by IT experts. This would	point. The IT specialists must be able to design, create, test and	client's needs. The industry-based skills students will learn are how	
	allow the IT specialist to remain on track in terms of time management, tasks	review AR prototype models in real life. These are the exact	to design HCI to enhance interaction between the end user and the	
	being allocated appropriately and ensure the IT system (spreadsheet model)	skills we will be teaching the students to ensure that they are	system. This unit will also develop the students understanding of the	
	meets the needs of the audience and the purpose.	organised and approach any AR task as it would be approached	challenges IT specialists face regarding criminal activity and	
		in industry.	constraints of designing and implementing an IT system.	
Key Vocabulary	Implementation	Augmented reality	Planning tools	
	Modelling	Maker less AR	Human Computer Interface	
	Formulae	Dimensions	Data Types	
	Functions	Visualisation	Testing	
	VLOOKUP	Storyboarding	Distribution Channels	
	Pivot tables	Wireframes	Connectivity	
	Macros	Assets	Internet of everything	
	Conditional formatting	Audio	Malware	
	Data types	Publishing	Networks	
	Forecasting	Scenes	Social engineering	